

INVESTIGATOR'S ANNUAL REPORT

National Park Service

All or some of the information provided may be available to the public

Reporting Year: 1998	Park: Shenandoah NP						
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Name: Dr. Don Orth	Phone: 540 231-5919	Email: n/a					
Name: Mr. Craig Roghair	Phone: 540 231-4864	Email: n/a					
Permit#: SHEN1998N-231							
Park-assigned Study Id. #: unknown							
Project Title: Long Term Recovery Of Fish Populations After A 500 Year Flood Event In A Shenandoah National Park Stream							
Permit Start Date: Jan 01, 1998	Permit Expiration Date Jan 01, 1999						
Study Start Date: Jan 01, 1998	Study End Date Jan 01, 2001						
Study Status: Completed							
Activity Type: Research							
Subject/Discipline: Fish / Ichthyology							
Objectives: <p>The primary objective is to determine the characteristics of recovery (change in fish populations - density, growth, movements) in a mountain stream after a catastrophic flood and debris flow. We will be using radio telemetry, mark and recapture, and two-way wiers (traps) to monitor fish movements among different habitat types(eg. pools and riffles within flood affected and unaffected reaches)</p>							
Findings and Status: <p>After being completely wiped out following the June, 1995 event, brook trout have recolonized the entire 1.6 km of flood-affected Satunton River. Blacknose dace also are now present, but in smaller numbers and distributed more patchily (in low-gradient, relatively shallow pools). Brook trout growth is significantly greater in the flood-affected reach. As evidenced by recovery of fish marked with PIT tags, brook trout are capable of negotiating steep cascades in both down and upstream directions. This research is being conducted in junction with studies of benthic macroinvertebrate production and water chemistry.</p>							
For this study, were one or more specimens collected and removed from the park but not destroyed during analyses? No							
Funding provided this reporting year by NPS: 0	Funding provided this reporting year by other sources: 31600						
Fill out the following ONLY IF the National Park Service supported this project in this reporting year by providing money to a university or college							
Full name of college or university:	Annual funding provided by NPS to university or college this reporting year:						

n/a	0
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